MOUSE ACTIONS

- **Touch** is the same as **Left-Clicking** the chart.
- **Press** is what you do to Buttons or Check Boxes.
- **Left-Click Ship's Target** (or [F9]) at any time to setup ship's position.
- **Left-Click** with no tools selected to centre chart.
  [**Ctrl**]**-Left-Click** to select an object beneath the Ship's Symbol.
- **Middle-Click** at any time to centre chart.
- **Right-Click** at any time to view data about that chart point (same as [Info]>[Touch])
- **Double-Click** the chart to display the NMEA form.
- **MouseWheel** will perform fast zooming.
- Touch/Slide along chart edges to pan chart when **Pan** button pressed.
- Many actions involve Touching the chart twice.. Note: this is NOT double-clicking, the first Touch selects the item, Touching it again performs the action (i.e.: showing a form).

FORMS

- **Ship's Settings & Display Options** ..... press [**F9**] or touch Ship's Symbol at any time
  Dead Reckoning; Ship Target and label settings; wind tools
- **Waypoints** ..... press Waypoint button, touch any existing waypoint
  Rename; locate; activate as destination; show wind shadow; set icon style
  All Waypoints ..... press [**F10**] or [Info]>[Wpt]
- **Route Details** ..... touch a route TurningMark twice, or press [Info]>[Route]
  View route details; activate; settings; planning; create auto search routes
  All Routes ..... press [**F11**] or [Info]>[Route]
- **PastTracks** ..... press [**BackSpace**] or CTRL-Click the Track
- **Chart Object Detail** ..... right-click any chart symbol
- **Tides** ..... right-click a Tide symbol
- **Raw NMEA Data** ..... press [**N**] or double-click chart
  Raw data from serial inputs; replay a log file; enable NMEA talking
- **AIS/ARPA Targets** ..... press [**T**] or [Radar/Target] button
- **About SOB** ..... press [**?**] button
  Installed C-Maps & SOB Registration and UnlockCodes
- **Installed Charts** ..... press [C-MAP] button on **About SOB** form
- **Order New Charts** ..... press [C-Map Selector] button on **About SOB** form

KEYSTROKES

F1	Display help page showing keystrokes	[**space**]	Centre at ship
F2	Display/hide Level Toolbar	[**Alt-space**]	Pan to exact location
F3	Display/hide Chart Toggles Toolbar	[**Enter**]	Start Info mode
F4	Cycle available display palettes	[**Arrows**]	Pan chart
F5	Display/hide Spot Soundings	[**I**] [**O**]	Zoom IN, Zoom OUT
F6	Toggle Mix Levels ON/OFF		
F7	Cycle night modes	[**L**] [**R**]	Steer ship in DR mode
F8	Declutter chart display	[**-**] [**+**]	Change ship's DR speed
F9	Ships form		
F10	All Waypoints form	[**B**]	Configure chart borders
F11	All Routes form	[**N**]	Show/Hide Raw NMEA form
F12	Perspective View	[**T**]	Show/Hide Targets form

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"Software-On-Board" QuickStart Card – SOBvMAX

General Tools

ZOOM-IN Decrease chart scale. Change Level as required. **ZOOM-OUT** Increase chart scale. Change Level as required.	
CENTRE CHART AT SHIP POSITION Chart will be centred at Ship's Position. **AUTO-CENTRE CHART AT SHIP POSITION** Ship's Symbol prevented from "sailing" off the screen.	
AUTO-PAN CHART Moving the cursor along the chart edge will pan the chart.	

Special Tools

MAN OVER BOARD Begin a MOB scenario. SOB will calculate a return route and provide instructions and retrieval tips. The MOB creates a regular Wpt at the Ship's Position setup as a "Navigate to Destination" mark.	
TARGETS Show form listing acquired **AIS / ARPA** targets and CPA details and settings. If connected, settings for redisplay of RADAR cursor, scale-rings and VRM/EBL.	
LOCATE PORTS AND SERVICES Search for Ports, Marinas or any of dozens of various marine services and facilities (fuel, water, phone, post, toilets, chandlers etc). Displays range and bearing (from centre of the display) and location of these places. Note: ports and services will only be displayed if detailed charts of these locations are installed.	
INFORMATION Depressing this button is like entering Right-Click mode … • Point to a chart navigation symbol or Target to show Quick Information box. • Touch any chart symbol for detailed information (same as Right-Click). • Use with Route, Waypoint or Centre Button to extend their function. Note: for TouchScreen use, true right-click mode is entered via the driver utility	

Information & Settings

SHOWS/HIDES DATA & INFORMATION PANELS Control display of View Panels: Ship's Data; Messages; Navigation; Targets; Anti-Grounding.	
PRINT Starts chart print mode. Select [Portrait] or [Landscape], zoom/pan the chart as desired, then press the [Printer] button to preview and print the image.	
DECLUTTER Reduce chart tools and drawings to minimalist display to declutter the chart surface. Hides Wind tools, Text labels, Chart borders etc	
REGISTRATION & C-MAP CHART DETAILS • Show version details about SOB and the C-MAP library • Enter SOB Unlock Code to establish Registration • View details about current C-MAP charts and licenses • Run "C-Map NT/PC Selector" application to order/purchase additional charts	
TIDES • Zoom to change the chart level to C, D or E Level to show Tide Symbols on chart. NOTE: The current chart level is displayed in square brackets on the status bar eg: [D] 75000:1 • Right-Click (or [Info->Touch]) any tide symbol for tide data, graphs and predictions.	T

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INTERFACE
SOB is designed for "touch screen" use, however extra functionality and ease of use is experienced with a mouse (middle-wheel recommended). The interface contains no menus and few actions require mouse "dragging". The chart display will automatically refresh itself every 5-10 seconds. For convention, our documentation uses [ ] brackets to indicate a button.
Further help and online manual at http://www.digiboat.com.au.

INSTALLING & FILE LOCATIONS
SOB will auto-install into the C:\SOBvMAX folder. This is the recommended folder, however you can override this and use any location (eg: 'C:\Program Files\SOB'). Win2K and WinXP users will need to login as 'Administrator' to install and use SOB in it's default folder.

If upgrading from previous SOB version - copy your Waypoints, Routes, Logfiles, Trackfiles and Licensed Charts over to the corresponding folder in SOBvMAX\.

SOB folders and Files:

- **SOBvMAX**
  Programs
  - SOBvMAX.exe — Main program file
  - SOB_COM.exe — Utility Program for detecting & setting available serial ports
  - SOB_REG.exe — Utility for restoring licensed charts on multiple PCs. For use with a C-Map Dongle, contact support@digiboat.com.au

  Documentation
  - QuickStart.pdf — This card.
  - SOB Manual.pdf — Printable version of the SOB Online User Manual.
  - RELEASE_NOTES.pdf — Addendum to the PDF User Manual.
  - NMEA Sentences.pdf — Summary of compatible NMEA data.
- **SOBvMAX\Waypoints**
  - !waypoints.wpt — SOB default waypoints file, which are reloaded when SOB starts.
  - *.wpt — User's wpt files, load as necessary with AllWaypoints form.
- **SOBvMAX\Routes**
  - *.rte — User's route files, load as necessary with AllRoutes form.
- **SOBvMAX\Logfiles**
  - !messages.txt — File containing text printed to the Messages ViewPanel.
  - !SOB_NMEA_DATA.log — SOB's NMEA data log file. Enable logging on NMEA Data form.
  - !autoplay.log — If exists, will start playing when SOB starts up.
  - *.log — User log files. Any text file containing NMEA sentences.
- **SOBvMAX\PastTracks**
  - !LastTrack.trk — Previous displayed pasttrack for automatic loading when SOB starts.
  - !PastTrack.txt — Accumulated PastTrack data.
  - *.txt — PastTrack files that can be analysed in Excel, or reloaded in SOB.
- **SOBvMAX\DemoCharts**
  - DMCxxxxx.MCV — Full detail Demo charts (15 available).
- **SOBvMAX\Charts** — Optional folder for storing licensed C-Map charts.
  - AUC20106.MCP — eg: Australia chart #201 ver 06 (Australia East Coast).
  - EWC21507.MCP — eg: Western Europe #215 ver 07 (English Channel).
- **SOBvMAX\UserCard** — created by SOB when a C-Map UserCard file is saved to HDD.

Drawing Modes / Navigation Tools

WAYPOINTS Touch chart to place a mark at that position. Touch an existing Wpt mark for detailed Wpt information or to change its settings. A Wpt can be placed at the current ship's position by pressing the MOB button, then releasing the button to end MOB mode – then rename and configure this Wpt as desired.

ALL WAYPOINTS Press the [Info]>[Wpt] buttons, or the [**F10**] key. Manage all loaded and unloaded wpts from this form. Control the groups (files) of Wpts for Loading or Unloading. Capture Wpts from compatible GPS, load User files (MARK/EVENT/ROUTE) from C-Map UserCard.

QUICK NAVIGATION POINT & LINE Touch the chart to draw a navigation line from Ship's Position. The Info Box shows: latitude & longitude; magnetic variation; range (RL & GC) and bearing (and reciprocal heading) from ship; and Time-to-Go at current SOG (Speed Over Ground).
Note: the InfoBox can not be hidden, to remove from your work area, zoom out or pan and place the box out of the way, then zoom or pan back to your work area. The line drawn from InfoBox to Ship can be hidden or displayed via the **Ship Tools** page of the **Ship's Form**.

RBL – RANGE & BEARING LINES Touch the chart to draw an RBL from Ship's Position, consecutive Touches will extend the RBL. Up to five extensions can be drawn, then the RBL will restart. Manually restart the RBL by pressing the RBL button twice (ie: Turn-Off RBL mode, then Turn-On RBL mode again). The RBL's have a short life span, whenever the RBL button is depressed the current RBL is cleared and a new RBL is started. So to remove the RBL from the chart: enter RBL mode (press button), then exit RBL mode without touching the chart. After the next chart refresh, only the start and end points of the RBL will connect back to the Ship's position.

ROUTES **Create a new Route**: Start Route mode, consecutively Touching chart will place the Starting-mark, Turning-marks and Destination positions. **Select a Route**: Touch any route mark to select that route, the route will change colour to red to show it is selected. The currently selected mark, will become a large solid dot, the next mark along the route will be a large hollow dot. **Edit a Route**: The Route/mark must first be selected, then Touch the new location to move the mark. (Hint: if the old mark is in the way when moving, first move to a different location, then move back). **Insert Route Mark**: Touch a mark twice, pressing the [Insert] button will place a new mark after the selected one. Move the new mark to its desired location. **Delete a Mark**: Touch the mark twice, then press the [Delete] button. **Activate a Route**: by depressing the button on a Route Form. Active routes will start N2D mode and send control data to an AutoPilot.

Display Route Details Form: Touch a route mark to select it, then Touch it again and press [Details] on the button menu OR select the route from the list on the **All Routes** form, then press the [Details…] button.

ALL ROUTES Form: Press [Info]>[Route], or type the [**F11**] key.

Loaded Routes from file: All routes used during a SOB session are automatically saved when the program exits, the route name is used for the file name. To force a save, press [←] on the **All Routes** form. To delete a route, simply delete the file name from Windows™ Explorer.

NOTE: Routes are easily transferred between computers (either email as an attachment, or save to disk), just place the file in the Routes folder, then load it in SOB using the All Routes form.